

ENGInews

Nº 44

4th October 2013

Summer at Campus 2013



HIGHLIGHTS:

- “Professor Rosário Oliveira” Award
- PhD student of Biological Engineering selected Novartis BioCamp
- Welcome, new students!
- Summer at Campus 2013 at the EEUM

Awards

WASTES conference creates “Professor Rosário Oliveira” Award

Campus of Gualtar, 12th September



The organising committee of the WASTES – Solutions, Treatments and Opportunities Conference, created the “Professor Rosário Oliveira” Award, to be granted from the 2nd edition of the conference onwards. Aiming at selecting the best full paper in the conference, the Award constitutes a tribute to Professor Rosário Oliveira, truly missed professor of the Department of Biological Engineering (DEB) of the EEUM.

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Paulo Flores honoured by Wichita State University (USA)

USA, 6th August



Professor Paulo Flores, from the Department of Mechanical Engineering (DEM) of the EEUM, was honoured by Wichita State University (USA) for the 10 years of close and productive collaboration with this north American institution. The main domains of the cooperation have been as follows: Dynamics of Mechanical Systems, Biomechanics and Design of Medical Devices. The joint activity resulted in more than 50 publications (books, scientific papers and pedagogical texts). During the tribute session, Professor Paulo Flores was invited to present the talk: “Biomechanics and Medical Devices for Quality of Life”.

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Franklin Nóbrega among the best students in the world

Switzerland, 11th September



Franklin Nóbrega, student of the Doctoral Programme in Biological Engineering of the EEUM, was one of the best students in the world, selected for the Novartis International Biotechnology Leadership Camp (BioCamp), an annual programme which gathers excellence students of sciences, health, economics and management. The young researcher was selected among thousands of applicants from the main world leading universities. The four day programme included seminars presented by world class researchers. The participants were involved in a case study which consisted in managing, planning and creating a business plan for a fictional start-up. The student selection, based on the academic results, professional experience and extracurricular activities of the candidates, was carried out by Novartis, promoter of the BioCamp and one of the largest pharmaceutical companies internationally.

Best Paper Award for paper of DPS researchers

Foz do Iguaçu, Brazil, 28th July to 1st August



The article “Professionals' demands for production engineering: analysing areas of professional practice and transversal competences” was granted the Best Paper Award during the ICPR22 – 22nd International Conference on Production Research, organized by the International Foundation for Production Research (IFPR). The awarded paper, written by Professor Rui M. Lima, from the Department of Production and Systems (DPS) of the EEUM, Carla Rocha, member of the DPS' staff, and Diana Mesquita, PhD student of the Institute of Education of the UMinho, is based in a study which aims at characterizing the demand for Engineering and Industrial Management professionals in Portugal. The criteria considered by the ICPR22 evaluators were the quality, relevance and originality of the study. The contribution of this analysis towards research in Engineering and Industrial Management, as well as towards the quality of engineering education in this area, was also mentioned.

Researcher from CEB wins European Doctoral Award in Biomaterials

Madrid, Spain, 8th to 12th September



Cláudia Botelho, researcher from the Centre of Biological Engineering (CEB) of the EEUM, won the European Biomaterials and Tissue Engineering Doctoral Award, granted during the 25th European Conference on Biomaterials, organized by the European Society of Biomaterials. The award recognized the quality of the researcher's work developed jointly at the CEB, the Institute of Biomedical Engineering/Faculty of Engineering of the University of Porto, at the Cambridge Centre for Medical Materials – Department of Materials Science & Metallurgy of the University of Cambridge, UK, and at the NAIST – Institute of Science and Technology, Japan, among other research centres.

Researcher from CEB awarded with Best Work

Bristol, United Kingdom, 16th to 18th September



Eugénia Nogueira, researcher from the Centre of Biological Engineering (CEB) of the EEUM, student of the Doctoral Programme in Molecular and Environmental Biology of the School of Sciences of the UMinho, under the supervision of Professor Artur Cavaco Paulo, researcher from CEB, and Professor Ana Preto, researcher from CBMA – Centre of Molecular and Environmental Biology of the UMinho, was granted the Best Work Award during the Conference Faraday Discussion 166: Self-Assembly of Biopolymers, organized by the Royal Society of Chemistry, United Kingdom. The awarded paper is entitled “Characterization of a peptide as a membrane anchor in liposomes for the incorporation of ligands for specific targeting” and focuses on the production of a new nanosystem for specific drug delivery.

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PhD Student of the EEUM awarded Best Iberian Thesis in IST



José Luís Cardoso da Silva, student of the Doctoral Programme in Informatics, MAP-i, promoted in partnership by the UMinho, the University of Aveiro and the University of Porto, won the 1st edition of the Award “Best Iberian Doctoral Thesis in Information Systems and Technologies”, promoted by AISTI – Iberian Association of Information Systems and Technologies. The awarded thesis is entitled “Rapid Prototyping of Ubiquitous Computing Environments” and was supervised by Professor José Francisco Creissac Freitas de Campos, from the Department of Informatics (DI) of the EEUM and Professor Michael Douglas Harrison, from the Newcastle University. The AISTI received a total of 27 applications to the award, 8 were selected for the last evaluation phase.

Student of the EEUM granted Honorable Mention of Young Researcher Award

Lisbon, 9th to 10th September



Ricardo Costa, student of the Integrated Master Course in Biomedical Engineering, was granted an Honorable Mention of the SYMCOMP 2013 Young Researcher Award, during the *International Conference on Algebraic and Symbolic Computation* (SYMCOMP 2013), with the paper entitled “Bending of a Beam with Finite Volume Schemes”. In 2012, the student won a research grant (BII) offered by the Centre of Mathematics of the UMinho which intended to encourage the beginning of the scientific activity and the development of students' critical sense in the early years of their academic studies. Ricardo Costa has integrated a project team of R&D under the supervision of Professors Gaspar J. Machado and Stéphane Clain, dedicated to the numerical and computational simulation of some mechanical phenomena using Finite Volume Schemes, which leads to high-order accuracy results.

Project by Micoteca da UMinho awarded internationally

Brazil, 2nd to 4th September

Fabiana Couto, student of the Doctoral Programme in Agricultural Microbiology of the Universidade Federal de Lavras (UFLA, Brazil), was granted the Award for 2nd Best Oral Communication at the International Symposium for Biodiversity. The project presented by the student was included in the 1 year internship developed at the Micoteca da UMinho (MUM), located at the Centre of Biological Engineering (CEB) of the EEUM. The awarded paper, entitled “Use of polyphasic approach to reclassify *Aspergillus* section *Flavi* isolates preserved at the Culture Collection CCDA, UFLA (MG), Brazil”, originated from a study which aimed at performing taxonomic identification of fungi through the use of innovative techniques and at assessing the isolated potential to produced relevant mycotoxins for food safety. The Micoteca da UMinho is once again recognised for its work on scientific research contributing towards finding solutions for real and economically relevant problems, as well as towards the advanced training of a new generation of mycologists.

Students of Fashion Design and Marketing are finalists in fashion competition

Santo Tirso, 20th September



Adriana Silva and Mariana Ramos, students of the final year of the Fashion Design and Marketing degree of the EEUM, were selected as finalists for the Fashion and Textile Digital Printing Competition – FABPRINT, promoted by Santo Tirso Municipality in partnership with ESAD – School for Arts and Design and the company Follow the Advice. The FABPRINT Talent category aimed at awarding students from the final year of any fashion degree of the academic year 2012/2013 or students who had finished their fashion degree between 2010 and 2013. In the final runway show, which took place at Fábrica de Santo Thyrsó, the students Adriana and Mariana presented three fashion design proposals under the theme “Embracing Disaster”. The competition aimed at awarding creative projects in the area of fashion design which use digital printing technology, whilst promoting the Fábrica de Santo Thyrsó Fashion and Design Incubator, as well as promoting and divulging this emerging technique in Fashion Design.

Welcome New Students!

Campi of Gualtar and Azurém, 16th September

The EEUM received its first students for the academic year 2013/14 which enrolled in the EEUM's 1st degree and Integrated Master courses.

The welcoming ceremony took place on the 16th September in the Noble Auditorium at the Campus of Azurém. The students were received by the Dean of the School, Professor João Monteiro, and by the Vice-Dean and President of the Pedagogical Council, Professor Rosa Vasconcelos. The session was also organized in the Campus of Gualtar for the students which enrolled courses taking place at this campus, presided by Professor Rosa Vasconcelos.

The Welcoming Programme for the New Students of the UMinho included the presentation of the UMinho's Schools and Institutes by each Dean, a lunch at the canteens of Gualtar and Azurém, a Welcoming Ceremony presided by the Rector and a cultural session by the end of the day.



Opening Session of the Doctoral Programmes of the EEUM

Campus of Azurém, 3rd October

The EEUM welcomed the students enrolled in its Doctoral Programmes for the academic year 2013/14. The session was presided by the Dean of the EEUM, Professor João Monteiro, who presented the school and its competences, namely regarding research activity, and also by the Vice-Dean and President of the Pedagogical Council, Professor Rosa Vasconcelos, who presented each Doctoral Programme and the Behavioural Curricular Units list from which the students may choose their options. The EEUM counts on the contribution of its PhD students for the advancement of science and technology, aiming at finding sustainable and innovative solutions for the current and emergent societal challenges.



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Summer at Campus at EEUM

Campi of Gualtar and Azurém, 22nd to 26th July

The 6th edition of "Summer at Campus", a programme aiming at promoting culture, science and art amongst youth and also at assisting young students which intend to access higher education with choosing an area of studies, took place in July. The activities, developed in the *campi* of Gualtar and Azurém, were directed towards secondary school students. The 2013 edition counted on 200 participants. The EEUM organised two of the activities: "Engineering and New Materials" and "Computing without Borders".



President of the Portuguese Republic visited UMinho's spin-offs and start-ups

AvePark, Taipas, 16th September



The President of the Portuguese Republic visited AvePark – Science and Technology Park, at Caldas das Taipas, Guimarães, aiming at knowing a few of UMinho's spin-off companies, namely Bn'ML, New Textiles, Critical Materials, EXVA, Biomode, Geojustiça and Stemmaters.

The Rector of the UMinho, Professor António Cunha, and the Vice-Rector, Professor José Mendes, joined the visit. The entrepreneurship and innovation ecosystem of the UMinho includes 120 companies which have generated more than 2000 work positions and a business volume of more than 360 million euros in 2010. The UMinho was recently granted the COTEC Portugal Award, presented by the President, Cavaco Silva, standing out among 16 universities for strategically boosting entrepreneurship. A year ago, the UMinho was also considered as the Portuguese university which generated more patents used by the industry.

Cloud Manufacturing in interview

In an interview to “Exame Informática” magazine, Professor Goran Putnik, from the Department of Production and Systems (DPS) of the EEUM, stated that cloud manufacturing will be a frequently used technique in the future. The researcher believes that any individual owning a profile in a social network should be able to login to a factory and choose the device they intend to produce, defining the laser cuts and other several parameters within the available 3D printers. In the United Kingdom, a project led by Ford and Autodesk is being implemented to test the transmission of data collected through a sensor in the machine to the augmented reality interface. Professor Putnik's team created a work cell which simulated a factory in the laboratory. Afterwards, 68 engineering students in Serbia, 2350 kilometers away, logged in to the system and successfully controlled the machine. A production scheme was uploaded, the machine was controlled and several items were cut in foam, according to the needs of the researchers. An emergency simulation was also tested, stopping the machine. In the future, it will be possible to gather users in specialized communities in social networks, which will create better remote production methods.



Documentary “The Extraordinary World of Fibres” premiered in national television

The documentary series “The Extraordinary World of Fibres”, produced in the framework of the project FIBRENAMICS, premiered in national television. The first episode aired on the 22nd September. This is a science and technology documentary series which will demonstrate the potential of fibre-based materials, based on the capacity of universities and national industry. The Fibrenamics project, led by Professor Raul Figueiro, from the Department of Civil Engineering (DEC) and researcher at the Centre for Science and Textile Technology (2C2T) da EEUM, aims at developing and divulging content on science and technology and the latest advancement in fibres throughout the media. In two years, the project organised 12 workshops for 3000 attendees, one worldwide conference with 250 experts from 40 countries, partnerships with more than 100 companies, a Creative Idea Competition, the TV series as well as new commercial products, such as ProtechDry, which was elected as Product of the Year 2013 for urinary incontinence patients.



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